Claims

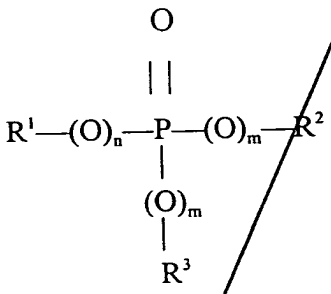
1. Flame resistant, thermoplastic moulding compositions containing

A) 70 to 98 parts by weight of an aromatic polycarbonate,

B) 0.5 to 20 parts by weight of a graft polymer,

C) 0.5 to 5 parts by weight of a mixture of

C.1) 10 to 90 wt.%, based on C, of a monophosphorus compound of formula (I)



(I),

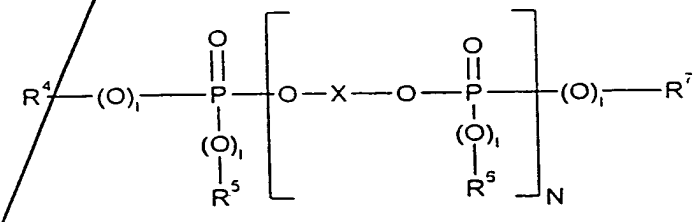
where

R^1, R^2 and R^3, independently of one another, signify C_1-C_8-alkyl, C_6-C_{20}-aryl or C_7-C_{12}-aralkyl,

m signifies 0 or 1 and

n signifies 0 or 1 and

C.2) 90 to 10 wt.%, based on C, of a phosphorus compound of formula (II)



(II)

where

R^4, R^5, R^6, R^7, independently of one another, signify C_1-C_8-alkyl, C_5-C_6-cycloalkyl, C_6-C_{10}-aryl or C_7-C_{12}-aralkyl,

I independently of one another, signifies 0 or 1,

N signifies 1 to 5 and

X signifies a mononuclear or polynuclear aromatic radical with 6 to 30 C atoms and

D) 0.05 to 5 parts by weight of a fluorinated polyolefin with an average particle diameter of 0.05 to 1000 µm, a density of 1.2 to 2.3 g/cm^3 and a fluorine content of 65 to 76 wt.%.

2. Moulding compositions according to claim 1, containing 75 to 98 parts by weight of an aromatic polycarbonate A.

3. Moulding compositions according to claim 1, containing graft polymers B) produced by copolymerisation of

5 to 95 parts by weight of a mixture of

50 to 95 parts by weight of styrene, α-methyl styrene, styrene with alkyl substitution in the ring, C_1-C_8-alkyl methacrylate, C_1-C_8-alkyl acrylate or mixtures of these compounds and

5 to 50 parts by weight of acrylonitrile, methacrylonitrile, C_1-C_8-alkyl methacrylate, C_1-C_8-alkyl acrylate, maleic anhydride, C_1-C_4-alkyl- or phenyl-N-substituted maleimide or mixtures of these compounds on

5 to 95 parts by weight of rubber with a glass transition temperature of less than -10°C.

4. Moulding compositions according to claim 3, containing as rubbers diene rubbers, polyacrylate rubbers, silicone rubbers or ethylene-propylene-diene rubbers.

5. Moulding compositions according to claim 1, containing component C in a quantity of a monophosphorus compound C.1 and an oligomeric phosphorus compound C.2 having a synergistic effect.

6. Moulding compositions according to claim 1, containing as component C a mixture of 12 to 50 wt.% C.1 and 50 to 88 wt.% C.2.

7. Moulding compositions according to claim 1, containing as component C.1 triphenyl phosphate.

8. Moulding compositions according to claim 1, containing as component C.2 an oligomeric phosphate in which R^4, R^5, R^6 and R^7 represent phenyl groups and X represents a phenylene group.

9. Moulding compositions according to claim 8, wherein X represents a bisphenylisopropylidene group.

10. Moulding compositions according to claim 1, wherein component D is used in the form of a coagulated mixture with component B.

11. Flame resistant thermoplastic moulding composition according to claim 1, containing additives selected from the group of stabilisers, dyes, pigments, lubricants and mould release agents, fillers and reinforcing agents, nucleating agents and antistatic agents.

12. Use of the moulding compositions according to claim 1 for the production of mouldings.